

United States Patent and Trademark Office



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/877,167	06/08/2001	Edward W. Sheehan		9295	
7590 11/21/2003		EXAM	EXAMINER		
Edward W. Sheehan			PHAM, I	PHAM, HAI CHI	
PO Box 111384 Pittsburgh, PA			ART UNIT	PAPER NUMBER	
			2861		
			DATE MAILED: 11/21/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

					09			
		Appli	cation No.	Applicant(s)				
Office Action Summary		09/8	77,167	SHEEHAN ET AL.				
		Exam	iner	Art Unit				
			Pham	2861				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
THE I - Externanter - If the - If NO - Failu - Any r	ORTENED STATUTORY PERIOD F MAILING DATE OF THIS COMMUN asions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this comn period for reply specified above is less than thirty (3 period for reply is specified above, the maximum st re to reply within the set or extended period for reply eply received by the Office later than three months a department set or	ICATION. of 37 CFR 1.136(a). In nunication. 0) days, a reply within thatutory period will apply a will, by statute, cause th	no event, however, may a e statutory minimum of th and will expire SIX (6) MC e application to become a	a reply be timely filed nirty (30) days will be considered timely. DNTHS from the mailing date of this col ABANDONED (35 U.S.C. § 133).				
1)⊠	Responsive to communication(s) file	ed on <u>31 <i>July 200</i></u>	<u>3</u> .					
2a) <u></u> ☐	This action is FINAL .	2b)☐ This action	is non-final.					
3)🖂	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
5)⊠ 6)□ 7)□	4) Claim(s) 1-27 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) 1-27 is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.							
Applicati	on Papers							
10)⊠	The specification is objected to by the The drawing(s) filed on <u>07/31/03</u> is/a Applicant may not request that any objected to Replacement drawing sheet(s) including The oath or declaration is objected to	re: a)⊠ accepte ction to the drawing the correction is re	g(s) be held in abeya equired if the drawin	ance. See 37 CFR 1.85(a). g(s) is objected to. See 37 CF	• •			
Priority ι	ınder 35 U.S.C. §§ 119 and 120							
* 5 13)	Acknowledgment is made of a claim All b) Some * c) None of: 1. Certified copies of the priority 2. Certified copies of the priority 3. Copies of the certified copies application from the Internation of the attached detailed Office action of the case of a claim of the case of a claim of the foreign lands of the foreign	documents have documents have of the priority document (PCT on for a list of the for domestic priority din the first sentenguage provisional or domestic priority documents domestic priority documents do	been received. been received in cuments have bee Rule 17.2(a)). certified copies not under 35 U.S.Cence of the specified application has ty under 35 U.S.C	Application No In received in this National Solution received. C. § 119(e) (to a provisional dication or in an Application I been received. C. §§ 120 and/or 121 since a	application) Data Sheet.			
Attachmen								
2) Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (F mation Disclosure Statement(s) (PTO-1449) P			Summary (PTO-413) Paper No(s Informal Patent Application (PTO				

Art Unit: 2861

EX PARTE QUAYLE

1. This application is in condition for allowance except for the following formal matters:

CLAIMS:

The following claims should be revisited for correction as suggested below:

Claim 1:

• Line 12, "filed" should read --field--.

Claim 7:

Do not show any limitations previously claimed in a cancelled claim. Just write –
 (Cancelled)-- after the claim number, e.g. 7. (Cancelled)

Claim 8:

• Line 2, after "ionization" add --source--.

Claim 13:

Lines 9-10, after "droplets" delete ", from said atmospheric ionization source,"
 since the atmospheric ionization source is stated differently as a source of charged droplets in this dependent claim 13.

Claim 15:

Line 2, after "ionization" add --source--.

Art Unit: 2861

Claim 18:

Line 14, "a electrostatic potential" should read --an electrostatic potential--;

Page 3

• Line 20, "said inlet aperture" should read --an inlet aperture--.

Claim 19:

• Line 1, change "wherein providing the transfer of said charged particles or ions

from said highly dispersive source at or near atmospheric pressure for gas-phase

ion analysis, comprises said inlet aperture" to --wherein said inlet aperture is

provided--, since it is not necessary to repeat the overall goal set forth in the

preamble of the base claim in each of the dependent claims, which would

otherwise confusedly suggest a separate [method] step being performed among

the recited claimed steps.

Claim 20:

Line 1, change "wherein providing the transfer of said charged particles or ions

from said highly dispersive source at or near atmospheric pressure for gas-phase

ion analysis, comprises a means of additional electrostatic focusing" to --further

comprising providing a means for addition electrostatic focusing--.

Claim 21:

Art Unit: 2861

 Line 1, delete "providing the transfer of said charged particles or ions from said highly dispersive source at or near atmospheric pressure for gas-phase ion analysis,".

Claim 22:

Line 1, change "wherein providing the transfer of said charged particles or ions
from said highly dispersive source at or near atmospheric pressure for gas-phase
ion analysis, comprises" to --further comprising providing--.

<u>Claim 23</u>:

 Line 1, delete "providing the transfer of said charged particles or ions from said highly dispersive source at or near atmospheric pressure for gas-phase ion analysis,".

<u>Claim 24</u>:

Line 1, change "wherein providing the transfer of said charged particles or ions
from said highly dispersive source at or near atmospheric pressure for gas-phase
ion analysis, comprises" to --further comprising providing--.

Claim 25:

Art Unit: 2861

Page 5

- Line 1, delete "providing the transfer of said charged particles or ions from said highly dispersive source at or near atmospheric pressure for gas-phase ion analysis,";
- Line 4, change "electrostatic field" to --electrostatic potential--;
- Line 5, after "topside" add --surface of said high transmission surface--.

Claim 26:

• Line 3, before "means" add --focusing--.

Claim 27:

- Line 1, delete "providing the transfer of said charged particles or ions from said highly dispersive source at or near atmospheric pressure for gas-phase ion analysis,";
- Line 3, change "electrostatic field" to --electrostatic potential--;
- Line 3, after "upstream" change "of" to --or--;
- Line 35, after "topside" add --surface of said high transmission surface--.
- Line 4, after "downstream" change "of" to --or--.

Prosecution on the merits is closed in accordance with the practice under *Ex* parte Quayle, 1935 C.D. 11, 453 O.G. 213.

A shortened statutory period for reply to this action is set to expire **TWO**MONTHS from the mailing date of this letter.

Application/Control Number: 09/877,167 Page 6

Art Unit: 2861

Allowable Subject Matter

2. Claims 1-27 are allowed.

3. The following is an examiner's statement of reasons for allowance: the primary reason for the indication of the allowability of the claimed invention is the inclusion of the limitations, in the combination as currently claimed, that the claimed apparatus and method for the collection and focusing of gas-phase ions or particles at or near atmospheric pressure includes a conductive high transmission surface with a plurality of holes through which the ions pass unobstructed on the way to a collector target by supplying an attracting electrostatic potential to the high transmission surface, wherein an electrostatic field provided at the underside of said high transmission surface is greater than the electrostatic field provided at the topside of said high transmission surface. The combined limitations are not found taught or fairly suggested by the prior arts made of record, considered alone or in combination.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Art Unit: 2861

Contact Information

Page 7

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hai C Pham whose telephone number is (703) 308-1281. The examiner can normally be reached on T-F (8:30-5:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Benjamin R. Fuller can be reached on (703) 308-0079. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7722, (703) 308-7724, (703) 308-7382, (703) 305-3431, (703) 305-3432.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

HAI PHAM
PRIMARY EXAMINER

Haveli Phour

November 17, 2003

10 mg 10 mg